

ABSTRACT OF THE DISCLOSURE

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A solid-state image pickup apparatus capable of performing, for instance, AE control by means of an image signal containing all colors used for color separation in photosensitive cells arranged in a honeycomb-like structure, and signal reading out method therefor. A digital still camera supplies a signal in a mode set by a mode setting section to a system control section. Upon receiving the signal, the system control section controls a drive signal generation section to generate a drive signal. Incident lights are supplied onto an image pickup section through color separation filters having filter segments of identical colors arranged in a column direction. The image pickup section photoelectrically converts the lights incident to the respective photosensitive cells. A drive signal generated by the drive signal generation section according to the specified mode is supplied to a signal reading out gate, so that an transfer for the signal charges is performed. In this case, signals for all the colors are read out in response to the drive signal in compliance with the color filter arrangement of the color separation filters. The signals read out are used by AF and AE adjustment sections for appropriate controls.